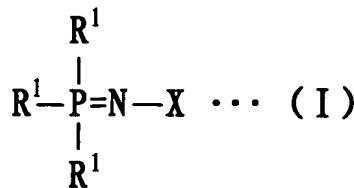


CLAIMS

1. An additive for a non-aqueous electrolyte of an electric double layer capacitor characterized by comprising a phosphazene derivative represented by the following formula (I):



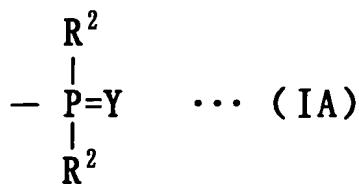
5 (wherein  $\text{R}^1$  is independently a halogen element or a monovalent substituent; and  $\text{X}$  is an organic group containing at least one element selected from the group consisting of carbon, silicon, nitrogen, phosphorus, oxygen and sulfur).

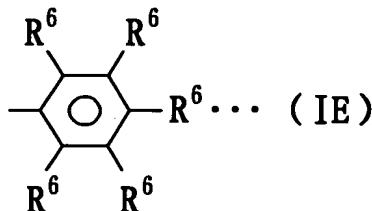
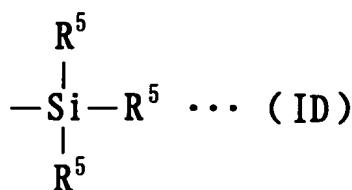
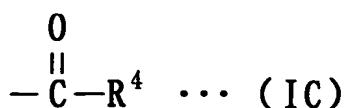
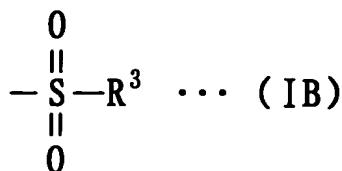
2. An additive for a non-aqueous electrolyte of an electric  
10 double layer capacitor according to claim 1, wherein at least one of  $\text{R}^1$ 's in the formula (I) is a halogen.

3. An additive for a non-aqueous electrolyte of an electric double layer capacitor according to claim 2, wherein the halogen is fluorine.

15 4. An additive for a non-aqueous electrolyte of an electric double layer capacitor according to claim 1, wherein  $\text{R}^1$  in the formula (I) is any one of an alkoxy group, a phenoxy group, an alkyl group, an aryl group, an acyl group, an amino group, an alkylthio group and an arylthio group.

20 5. An additive for a non-aqueous electrolyte of an electric double layer capacitor according to claim 1, wherein  $\text{X}$  in the formula (I) is represented by any one of the following formulae (IA), (IB), (IC), (ID) and (IE):





(in the formulae (IA), (IB), (IC), (ID) and (IE), R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are independently a halogen element or a monovalent substituent; and Y is an organic group containing at least one element selected from the group consisting of oxygen, sulfur, carbon, silicon, nitrogen and phosphorus).

6. A non-aqueous electrolyte electric double layer capacitor comprising a non-aqueous electrolyte containing an additive for a non-aqueous electrolyte of an electric double layer capacitor as claimed in any one of claims 1 to 5 and a support salt, a positive electrode, and a negative electrode.

7. A non-aqueous electrolyte electric double layer capacitor according to claim 6, wherein a content of the phosphazene derivative in the non-aqueous electrolyte is not less than 1.0 volume%.

8. A non-aqueous electrolyte electric double layer capacitor according to claim 7, wherein the content of the phosphazene derivative in the non-aqueous electrolyte is not less than 2 volume%.

9. A non-aqueous electrolyte electric double layer capacitor according to claim 8, wherein the content of the phosphazene derivative in the non-aqueous electrolyte is not less than 5 volume%.

10. A non-aqueous electrolyte electric double layer capacitor  
5 according to claim 9, wherein the content of the phosphazene derivative in the non-aqueous electrolyte is not less than 10 volume%.